## AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application.

- 1. (Currently Amended) A method of growing <u>mammalian</u> spermatogonial stem cells, which comprises growing <u>mammalian</u> spermatogonial stem cells by culturing the spermatogonial stem cells for at least 3 to 4 weeks using a medium containing (a) glial cell-derived neurotrophic factor (GDNF), neurturin, or artemin (GDNF) or an equivalent thereto and (b) leukemia inhibitory factor (LIF).
- 2. (Original) The method of growing spermatogonial stem cells of claim 1, wherein the above-described medium further contains at least one of epidermal growth factor (EGF) and basic fibroblast growth factor (bFGF).
- 3. (Previously Presented) The method of growing spermatogonial stem cells of claim 1, wherein the above-described medium further contains serum.
- 4. (Previously Presented) The method of growing spermatogonial stem cells of claim 1, which further comprises using feeder cells.
  - 5. (Canceled)
- 6. (Previously Presented) The method of growing spermatogonial stem cells of claim 1, wherein the above-described glial cell-derived neurotrophic factor (GDNF) or an equivalent thereto is contained at a concentration of 0.5 to 50 ng/ml in the above-described medium.
- 7. (Previously Presented) The method of growing spermatogonial stem cells of claim 1, wherein the above-described leukemia inhibitory factor (LIF) is contained at a concentration of  $10^2$  to  $10^4$  units/ml in the above-described medium.
- 8. (Previously Presented) The method of growing spermatogonial stem cells of claim 2, wherein epidermal growth factor (EGF) is contained at a concentration of 0.5 to 50 ng/ml in the above-described medium.

- 9. (Previously Presented) The method of growing spermatogonial stem cells of claim 2, wherein the above-described basic fibroblast growth factor (bFGF) is contained at a concentration of 0.5 to 50 ng/ml in the above-described medium.
- 10. (Previously Presented) The method of growing spermatogonial stem cells of claim 3, wherein the above-described serum is contained at a concentration of 0.1 to 5(v/v)% in the medium at the start of cultivation of the above-described spermatogonial stem cells, and at a concentration of 0.1 to 20(v/v)% in the medium after passage of the above-described spermatogonial stem cells.
- 11. (Previously Presented) The method of growing spermatogonial stem cells of claim 4, wherein the above-described feeder cells are used by 4 weeks after the start of cultivation at latest.

12.-27. (Canceled)